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Sethre

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(54) **COUPLER DEVICE AND A METHOD OF PREVENTING SPILLAGE FROM A COUPLER DEVICE**

(58) **Field of Classification Search**

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(75) Inventor: **Kåre Sethre**, Posgrunn (NO)

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(73) Assignee: **MacGregor Norway AS**, Kristiansand (NO)

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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Primary Examiner — Craig J Price

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(74) *Attorney, Agent, or Firm* — Osha Liang LLP

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(57) **ABSTRACT**

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CPC **F16L 37/00** (2013.01); **B63B 27/25** (2013.01); **F16L 37/36** (2013.01); **Y10T 137/0318** (2015.04); **Y10T 137/9029** (2015.04)

A coupling device for use on ends of loading arms for coupling to loading adapters on transportation vehicles, the coupling device including a first coupler member having a first valve, a second coupler member having a second valve, first and second members arranged and configured to displace at least a portion of fluid from a plurality of mating regions between the first and second coupler members, and a volume defined between the first and second coupler members having an inlet conduit and an outlet conduit, the inlet and outlet conduits connected to an external fluid control and integrated in the first coupler member.

10 Claims, 5 Drawing Sheets

